0-3 MULTIPLICATION FACTS

MULTIPLICATION IS ADDITION.

EXAMPLE: $2 \times 3 = 3 + 3 = 6 \text{ OR } 4 \times 1 = 1 + 1 + 1 + 1 = 4$.

$$0 X 0 = 0$$

$$0 X 1 = 0$$

$$0 X 2 = 0$$

$$0 X 3 = 0$$

$$1 \quad X \quad \mathbf{0} = 0$$

$$1 X 2 = 2$$

$$2 X 0 = 0$$

$$2 X 1 = 2$$

$$2 X 2 = 4$$

$$3 X 0 = 0$$

$$3 X 1 = 3$$

$$3 X 2 = 6$$

$$3 X 3 = 9$$

$$4 X 0 = 0$$

$$4 X 1 = 4$$

$$4 X 2 = 8$$

$$4 X 3 = 12$$

$$5 X 0 = 0$$

$$5 X 1 = 5$$

$$5 X 2 = 10$$

$$5 X 3 = 15$$

$$6 X 0 = 0$$

$$6 X 1 = 6$$

$$6 X 2 = 12$$

$$6 X 3 = 18$$

$$7 X 0 = 0$$

$$7 X 1 = 7$$

$$7 X 2 = 14$$

$$7 X 3 = 21$$

$$8 X 0 = 0$$

$$8 X 1 = 8$$

$$8 X 2 = 16$$

$$8 X 3 = 24$$

$$9 X 0 = 0$$

$$10 X 0 = 0$$

$$10 X 3 = 30$$

$$11 \quad X \quad \mathbf{0} = 0$$

$$11 \ X \ 1 = 11$$

$$12 X 0 = 0$$

$$12 X 2 = 24$$

$$12 X 3 = 36$$

$$13 \ X \ 0 = 0$$

$$13 X 2 = 26$$

$$13 X 3 = 39$$



DO YOU SEE A PATTERN FOR EACH SET? REMEMBER, MULTIPLICATION IS A SHORTCUT FOR ADDITION.

4 X**2**= 8

$$5 X 2 = 10 <$$

$$5 \quad X \quad \mathbf{2} = 12 < \frac{1}{3}$$

$$X \quad \mathbf{2} = 14$$

IF YOU LOOK AT TWO, YOU CAN SEE THAT EVERY TIME WE MULTIPLY WE'RE JUST ADDING TWO TO THE ANSWER BEFORE IT.

